

Regional view on Scenarios and other topics

RG Baltic Sea

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Possible questions from the audience



- ✓ Why are we making visions?
- ✓ What does the visions contain?
- ✓ How do the visions cope with the future challenges?
- ✓ How are the visions constructed?
- ✓ What is in the visions?

Why are we making visions?



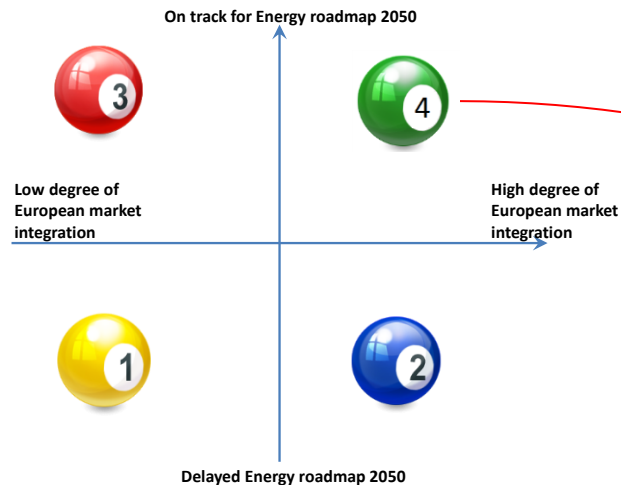
The main objective of transmission system planning is to ensure the development of an adequate transmission system which, with respect to mid and **long term** time horizons with uncertain developments:

- ✓ Enables safe system operation,
- ✓ Enables a high level of security of supply,
- ✓ Contributes to a sustainable energy supply,
- ✓ Facilitates grid access to all market participants,
- ✓ Contributes to internal market integration and
- ✓ Contributes to energy efficiency of the system.

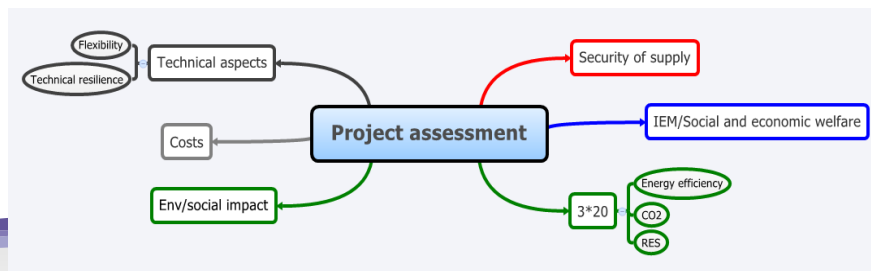
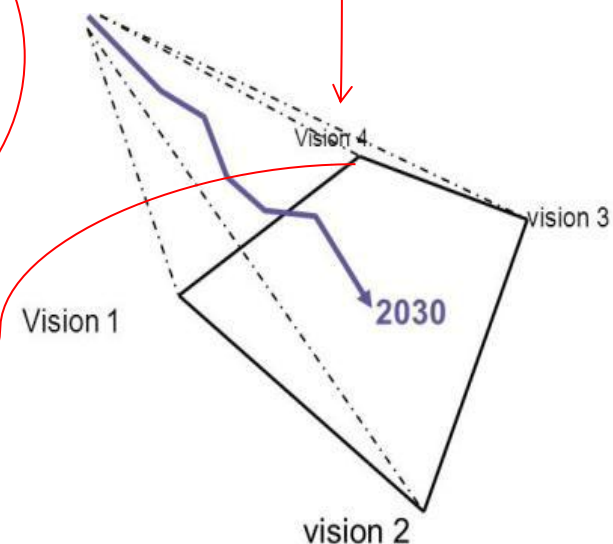
How is the future challenges represented in the visions?

- Different visions represent together a coherent, comprehensive and internally consistent description of a plausible future
- How is the production capacity going to be in the future? The demand?
- How can interconnectors help the different futures and which projects are robust no matter what future lies ahead?
- The challenge with flexible production capacity is treated by having different amounts of flexible capacity in the visions
- Flexible consumption is treated differently in each scenario from no demand response to fully demand response.
- The market integration of the Baltic countries are special for the Baltic region. How this should be handled in each vision is going to be interesting to see.
- Where is the most optimal places for production capacity in the Baltic region and what is needed to transport this energy is also a different challenge in each vision.

How are the visions constructed?



Time horizon
economic key parameters
generation portfolio
demand forecast
exchange patterns



EU 2020 vision/scenario

The national renewable energy action plan for each member country is the basis for this scenario.

A top-down scenario.

Based on the EU and national goals for the electricity system.



Renewable energy



Action Plans & Forecasts

Article 4 of Directive 2009/28/EC on Renewable Energy requires Member States to submit national renewable energy Action Plans by 30 June 2010. These plans, to be prepared in accordance with the template published by the European Commission (EC), provide detailed roadmaps of how each Member State expects to reach its legally binding 2020 target for the share of renewable energy in their final energy consumption.

- [Directive 2009/28/EC of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC](#)
- [2009/548/EC: Commission Decision of 30 June 2009 establishing a template for National Renewable Energy Action Plans under Directive 2009/28/EC](#)
- [Frequently Asked Questions](#) [41 KB]

National renewable energy action plans

Member States have notified their national renewable energy action plans to the EC by 30 June 2010. Member States set out the sectoral targets, the technology mix they expect to use, the trajectory they will follow and the measures and reforms they will undertake to overcome the barriers to developing renewable energy.

Notice : Reports have been submitted in the language of the respective Member State, which is the sole authentic version. Translations into the English language are being provided for information purposes only. The EC does not guarantee the accuracy of the data or information provided in these translations, nor does it accept responsibility for any use made thereof.

- [Austria](#) [4 MB]
- [Belgium](#) [4 MB]
- [Bulgaria](#) [6 MB]
- [Cyprus](#) [7 MB]
- [Czech Republic](#) [7 MB] (updated March 2013)
- [Denmark](#) [12 MB]



National handlingsplan For vedvarende energi i Danmark

Juni 2010



What is in the Visions? (1)

On track for
Energy Roadmap 2050

Vision 3: "Green Transition"

- Favourable economic and financial conditions
- Reinforced national energy politics
- Parallel national R&D research schemes
- High CO₂ prices and low primary energy prices (IEA – WEO 2010 450 scenario)

Vision 4: "Green Revolution"

- Favourable economic and financial conditions
- European energy policy
- European R&D research scheme
- High CO₂ prices and low primary energy prices (IEA – WEO 2010 450 scenario)

Low degree
of integration
of the internal
electricity
market

Vision 1: "Slow Progress"

- Less favourable economic and financial conditions
- Reinforced national energy politics
- Parallel national R&D research schemes
- Low CO₂ prices and high primary energy prices (IEA – WEO 2010 current policies scenario)

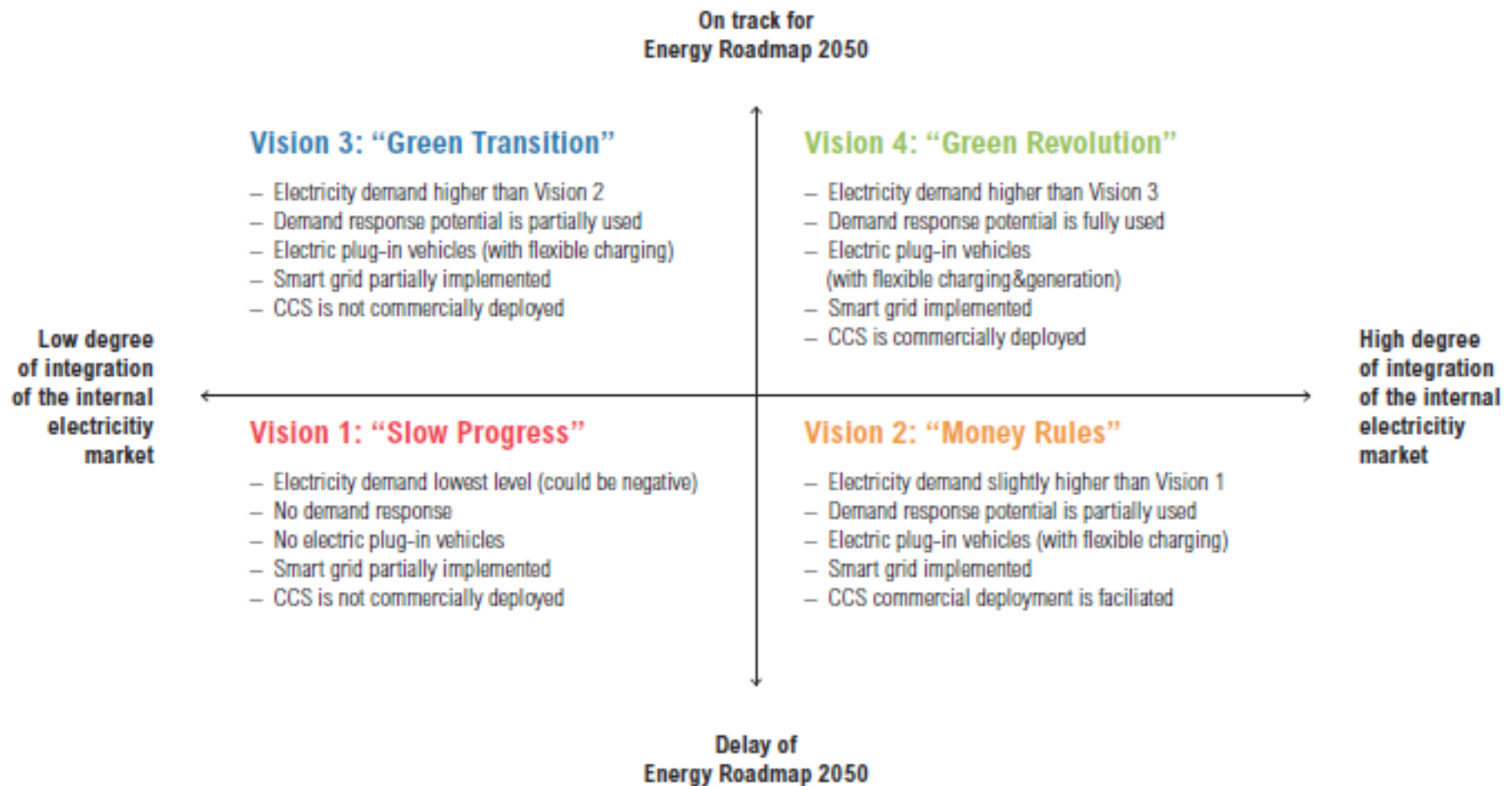
Vision 2: "Money Rules"

- Less favourable economic and financial conditions
- European energy policy
- European R&D research scheme
- Low CO₂ prices and high primary energy prices (IEA – WEO 2010 current policies scenario)

High degree
of integration
of the internal
electricity
market

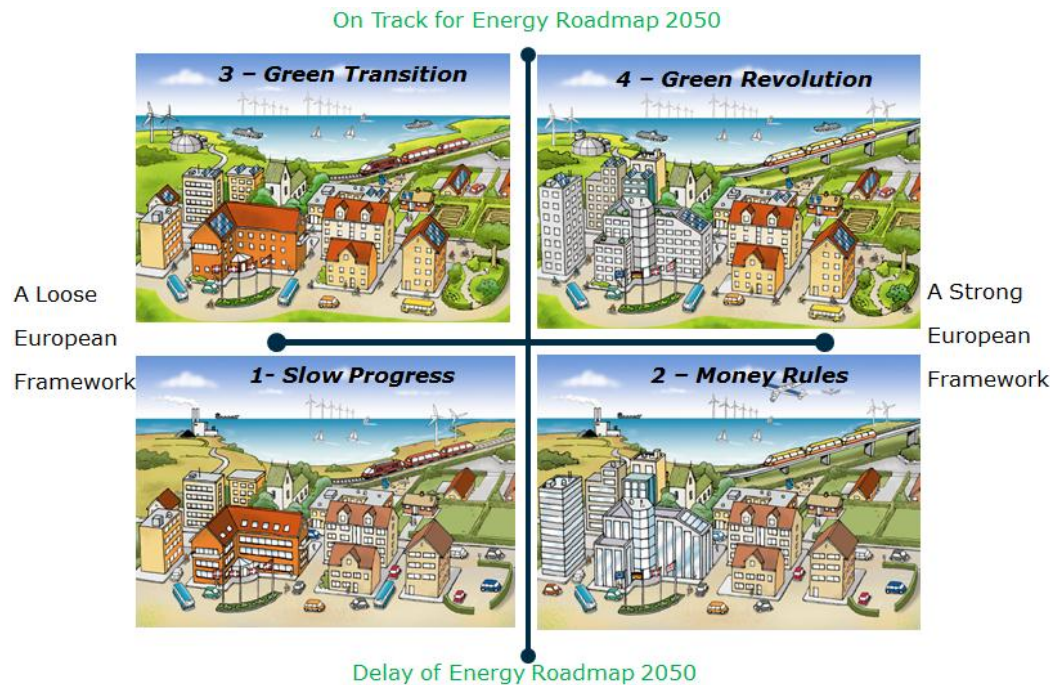
Delay of
Energy Roadmap 2050

What is in the Visions? (2)



How is the visions used in the exploratory phase?

- To have preliminary results ready for the assessment phase
Regional Group Baltic Sea has constructed a baltic vision that is a mix of vision 3 and 4 .
- In the exploratory phase the Baltic Green Vision was used to bring out the maximum needs of network reconstructions/reinforcements in order to accommodate the largest change in generation portfolio and supply securely consumption increase.
- The possible projects will be assessed against ENTSO-E's common visions in the assessment phase.





Thank you for your attention!